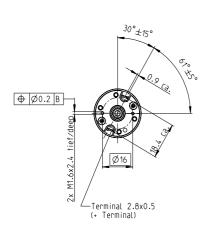
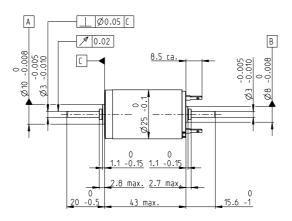
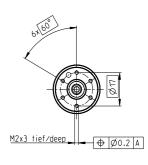
RE 25 Ø25 mm, Graphite Brushes, 20 Watt







M 1:2

Stock program Standard program Special program (on request)		Part Numbers														
		302534	339149	339150	339151	339152	339153	339154	339155	339156	339157	339158				
Motor Data																
Values at nominal voltage																
1 Nominal voltage	V	7.2	9	12	18	24	30	36	48	48	48	48				
2 No load speed	rpm	10500	9710	9620	10400	10900	9210	10100	9540	8450	6720	4650				
3 No load current	mA	133	93.2	68.1	50.6	40.2	25	23.7	16.4	13.7	9.89	6				
4 Nominal speed	rpm	8970	8260	8310	9190	9690	8010	8860	8360	7270	5530	3430				
5 Nominal torque (max. continuous torque)	mNm	21.9	24.4	27.5	29.1	30.4	31.4	30.7	31.7	32.3	32.9	32.8				
6 Nominal current (max. continuous current) A	3.68	2.97	2.45	1.85	1.5	1.04	0.931	0.68	0.614	0.495	0.341				
7 Stall torque	mNm	259	238	268	297	325	265	279	270	243	192	127				
8 Stall current	Α	42.1	28.1	23.2	18.4	15.6	8.61	8.24	5.67	4.51	2.84	1.3				
9 Max. efficiency	%	79	81	84	86	88	88	88	89	88	88	86				
Characteristics																
10 Terminal resistance	Ω	0.171	0.32	0.517	0.98	1.53	3.49	4.37	8.47	10.6	16.9	36.8				
11 Terminal inductance	mH	0.016	0.031	0.057	0.112	0.186	0.407	0.493	0.979	1.25	1.97	4.11				
12 Torque constant	mNm/A	6.15	8.46	11.5	16.1	20.8	30.8	33.8	47.7	53.8	67.7	97.6				
13 Speed constant	rpm/V	1550	1130	828	591	460	311	282	200	177	141	97.8				
14 Speed / torque gradient	rpm/mNm	43.2	42.8	37.1	35.9	34	35.2	36.5	35.6	35.1	35.2	36.9				
15 Mechanical time constant	ms	6.52	6.06	5.62	5.36	5.24	5.17	5.16	5.13	5.12	5.12	5.14				
16 Rotor inertia	acm ²	14.4	13.5	14.5	14.3	14.7	14	13.5	13.8	13.9	13.9	13.3				

Thermal data Thermal resistance housing-ambient 14.4 K/W Thermal resistance winding-housing 5.1 K/W 19 Thermal time constant winding 27.7 s 20 Thermal time constant motor 543 s Ambient temperature -30...+100°C 22 Max. winding temperature +155°C Mechanical data (ball bearings)

14000 rpm 23 Max. speed 0.05 - 0.15 mm Axial play Radial play 0.025 mm Max. axial load (dynamic) Max. force for press fits (static) 20 N 60 N (static, shaft supported) 1000 N 28 Max. radial load, 5 mm from flange 35 N

Other specifications

- 29
- Number of pole pairs Number of commutator segments 30
- Weight of motor

Values listed in the table are nominal. Explanation of the figures on page 68.

